



# Air Resources Board



**Linda S. Adams**  
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**Arnold Schwarzenegger**  
Governor

May 11, 2010

Mail-Out #MSC 10-25

TO: All Interested Parties

SUBJECT: PUBLIC WORKSHOP TO DISCUSS POTENTIAL TECHNOLOGIES FOR  
2017 AND LATER MODEL YEAR PASSENGER VEHICLES – LEV III

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The Air Resources Board (ARB or Board) is developing a proposal for more stringent emission requirements for new passenger vehicles, to be considered by the Board later this year. A one-day workshop to discuss ARB staff's preliminary thoughts and sources of information upon which to base the proposed standards and test procedures is scheduled for May 18th, 2010, in El Monte, California.

Details of the meeting are as follows:

DATE: May 18, 2010  
TIME: 9:00 a.m.  
PLACE: California Environmental Protection Agency  
Air Resources Board  
9430 Telstar Avenue  
El Monte, California 91731

This is the second technical workshop for the LEV III rulemaking. The first workshop, on March 2<sup>nd</sup>, focused on preliminary elements of the proposed criteria pollutant emission standards and involved a presentation of technical information from several studies that are under evaluation for potential greenhouse gas emission reduction. This second workshop will go into more detail in several areas related to criteria pollutant emissions and greenhouse gas emissions.

ARB staff plans to cover four topic areas in the workshop. First, the morning session will include external expert presentations on a number of issues related to the reduction of vehicle mass through advanced materials and optimized vehicle designs as a means of reducing greenhouse gas emissions. ARB staff believes that vehicle mass-reduction technologies along with many other vehicle technologies – including powertrain efficiency, improved aerodynamics, and hybrid drivetrain systems – could be among the promising strategies for reducing carbon dioxide and other greenhouse gas emissions

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

In advance of the workshop, ARB staff would like to direct workshop participants to the following studies in the general area of vehicle mass-reduction technology:

- Lotus Engineering, Incorporated, 2010. *An Assessment of Mass Reduction Opportunities for a 2017-2020 Model Year Vehicle Program*. March.  
[http://www.theicct.org/documents/0000/1430/Mass\\_reduction\\_final\\_2010.pdf](http://www.theicct.org/documents/0000/1430/Mass_reduction_final_2010.pdf)
- EDAG, 2009. *Future Steel Vehicle: Phase I*. Prepared for WorldAutoSteel.  
[http://www.worldautosteel.org/uploaded/FSV\\_Executive\\_Summary.pdf](http://www.worldautosteel.org/uploaded/FSV_Executive_Summary.pdf)
- Volkswagen, 2008. "Super Light Car: Sustainable Production Technologies for CO<sub>2</sub> Emission Reduced Lightweight Car Concepts." Transport Research Arena Europe.  
[www.superlightcar.com/public/docs/SLC\\_presentation\\_TRA08\\_VW\\_March08.ppt](http://www.superlightcar.com/public/docs/SLC_presentation_TRA08_VW_March08.ppt)
- ITS-Davis, 2010. *Review of technical literature and trends related to automobile mass-reduction technology*. [http://pubs.its.ucdavis.edu/publication\\_detail.php?id=1390](http://pubs.its.ucdavis.edu/publication_detail.php?id=1390)

Beginning in the afternoon, the second major workshop topic area will be mobile air conditioning (AC) systems. ARB staff will present its preliminary thoughts on proposed greenhouse gas emission standards for AC systems. These standards will cover AC "indirect" emissions (e.g., efficiency of AC systems, vehicle heating load), "direct" emissions (e.g., refrigerant global warming potential, leakage rates), and the potential for modifying current or creating new testing procedures.

Third, ARB staff will discuss a number of issues related to vehicle particulate matter emissions. ARB staff has developed a discussion paper on its preliminary regulatory development toward particulate matter emission standards and is seeking comments and input from stakeholders. The discussion paper, "Preliminary Discussion Paper – Amendments to California's Low-Emission Vehicle Regulations – Particulate Matter mass, Ultrafine Solid Particle number, and Black Carbon Emissions," can be found at the LEV III website: <http://www.arb.ca.gov/msprog/levprog/leviii/leviii.htm>

Fourth, staff will provide an update on the proposed evaporative and supplemental federal test procedure requirements.

If you require special accommodations or language needs, please contact Ms. Adriann Medina at (626) 459-4405 or [amedina@arb.ca.gov](mailto:amedina@arb.ca.gov), as soon as possible but no later than 10 business days before the scheduled meeting. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

ARB will use the LEV Program list serve to notify stakeholders of upcoming events. If you wish to sign up for this list serve, please visit:  
[http://www.arb.ca.gov/listserv/listserv\\_ind.php?listname=levprog](http://www.arb.ca.gov/listserv/listserv_ind.php?listname=levprog)

The workshop will be webcast. Interested parties may access the webcast on the morning of the workshop at: <http://www.calepa.ca.gov/broadcast/?BDO=1>

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Interested members of the public may present comments orally or in writing at the workshop. Comments may also be submitted by postal mail before the workshop or by electronic submittal before and during the workshop.

Postal mail: Mr. Paul Hughes  
Air Resources Board  
9480 Telstar Avenue, Suite 4  
El Monte, California 91731

Electronic submittal: [phughes@arb.ca.gov](mailto:phughes@arb.ca.gov)

We welcome and encourage your participation. If you have any questions regarding the workshop, please contact Mr. Paul Hughes, Manager, at (626) 575-6977, or by email at [phughes@arb.ca.gov](mailto:phughes@arb.ca.gov), or Ms. Sarah Carter, Staff Air Pollution Specialist, at (626) 575-6845, or by email at [scarter@arb.ca.gov](mailto:scarter@arb.ca.gov). Questions on particulate matter can be addressed to Alberto Ayala, Chief, at [aayala@arb.ca.gov](mailto:aayala@arb.ca.gov). Questions on the air conditioning program can be addressed to Michael Carter, Chief, at [mcarter@arb.ca.gov](mailto:mcarter@arb.ca.gov).

Sincerely,



Robert H. Cross, Chief  
Mobile Source Control Division

cc: Mr. Paul Hughes, Manager  
Low Emission Vehicle Implementation Section

Ms. Sarah Carter, Air Pollution Specialist  
Low Emission Vehicle Implementation Section

Dr. Alberto Ayala, Chief  
Monitoring and Laboratory Division

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Ms. Adriann Medina, Office Technician  
Engineering Studies Branch